

TECHNICAL SPECIFICATION

Principles

WBC

Flow Cytometry (FCM) + Laser Light Scatter + Cytochemical Staining Method

RBC/PLT

Electric Impedance Method

HGB

Non-Cyanide Colorimetric Method

Parameters

25 Report Parameters

WBC, Bas#, Bas%, Neu#, Neu%, Eos#, Eos%, Lym#, Lym%, Mon#, Mon%, RBC, HGB, HCT, MCV, MCG, MCHC, RDW-CV, RDW-SD, PLT, MPV, PDW, PCT, P-LCR, P-LCC.

4 Research Parameters

ALY#, ALY%, LIC#, LIC%.

2 Histograms for RBC, PLT

4 Scattergrams for WBC differential

Performance

Parameters	Linearity Range	Precision	Carryover
WBC	0-300x10 ⁹ /L	≤2%(3.5-15x10 ⁹ /L)	≤0.5%
RBC	0-8x10 ¹² /L	≤1.5%(3.5-6.0x10 ¹² /L)	≤0.5%
HGB	0-30 g/dL	≤1.5%(11.0-18.0 g/dL)	≤0.5%
PLT	0-2000x10 ⁹ /L	≤6.0%(100-149x10 ⁹ /L) ≤4.0%(150-500x10 ⁹ /L)	≤1.0%

Throughput

Up to 60 Samples Per Hour

Display

10.4 Inch Color Touch Display

Data Storage Capacity

Up to 50,000 Results Memory with Scattergrams and Histograms

Communication

LAN Port Supports HI7 Protocol

Interface

4 Pcs USB Ports, 1 Pc Ethernet Port,
Support Uni-Directional LIS
Support Printers, Keyboard, Mouse, Barcode Scanner

Sample Volume

Whole Blood Sample : 20µL
Capillary Whole Blood Mode : 20µL
Pre-Diluted Mode : 20µL

Printout

External Laser Printer/ Inkjet Printer/ Thermal Printer
Various Printout Formats and User-Defined Formats

Operating Environment

Temperature: 10 - 30 °C, Humidity: 70% Max.

Machine Dimension and Weight

Width x Height x Depth : 325mm * 465mm * 470mm
Weight: 30 Kg

Package Dimension and Weight

Length x Width x Height : 630mm * 490mm * 630mm
Weight: 35 Kg

Reagents

SeraDiluent: 20L x 1
SeraLyse: SeraDIFF(500mLx1), SeraLH(100mLx1)
Probe Cleanser: 100mL x 1



SC-Diff 5

AUTOMATED HEMATOLOGY ANALYZER



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EC REP

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SC : SERIES OF HEMATOLOGY ANALYZER

Let our experience....
be your guide....



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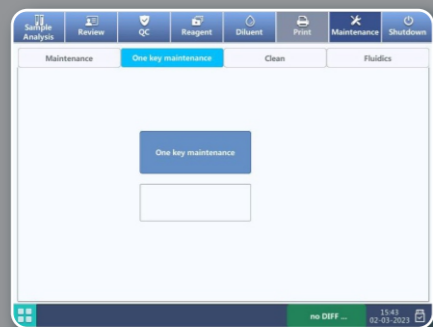


AUTOMATIC 5 PART HEMATOLOG Y ANALYZER

The Serachem SC-Diff 5 is a compact analyzer that offers fast and high-quality CBC testing for clinics and laboratories. With a 29-parameter complete blood count at the push of a button, the Xpenarray makes on-site hematology easy and affordable.

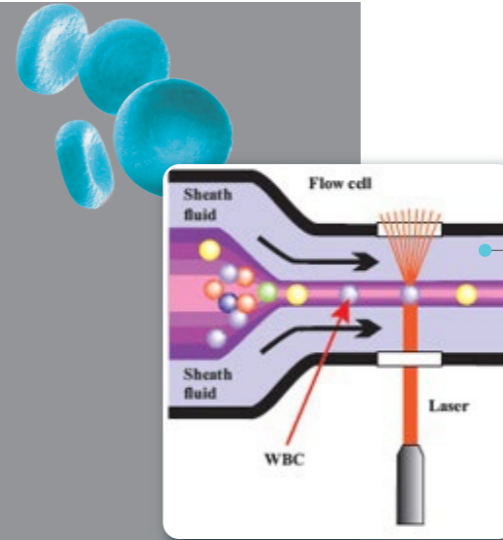
COMPACT AND POWERFUL

- Space-saving compact design
- Up to 60 samples per hour
- 10.4 inch large touch screen
- 29 parameters + 4 scattergrams + 2 histograms



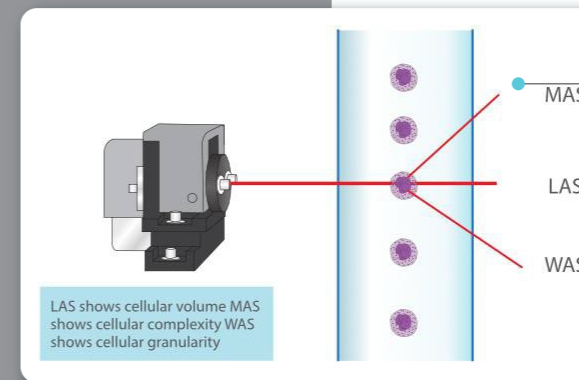
EASY TO USE

- One button analysis
- Cutting-edge technology
- Dual WBC differential channels
- Smart maintenance system



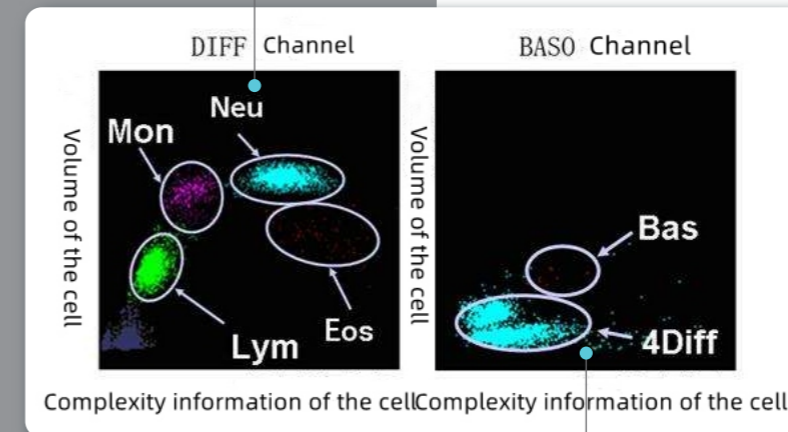
DUAL ACCELERATION FLOW CELL SYSTEM

Reduces the velocity gap between sheath flow and blood cells, providing a more stable signal for accurate measurement via laser scatter



LATEST INNOVATION TRI-ANGLE LASER SCATTERING

The tri-angle laser scattering contributes to more accurate counting. The optical detector receives scatter light signals and converts them into electrical pulses.



CHEMICAL DYE METHOD BY ORIGINAL REAGENTS

The basophils and eosinophils are differentiated by the unique chemical dye method. The reagents, control and calibrator materials act as one complete system to ensure high accuracy in differentiating between basophils and eosinophils

TWO SEPERATE CHANNELS TO DIFFERENTIATE WBC

Counts lymphocyte, monocyte, neutrophil and eosinophil in "Diff" channel, and basophil in a separate "Baso" channel. Optical method to test Basophil provides more reliable information about cell physiology.

